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DATE: Thursday, August 11, 2005

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<input type="checkbox"/>	L1	collier.in. or sellman.in.	2393
<input type="checkbox"/>	L2	L1 and anthra\$	11
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<input type="checkbox"/>	L5	L1 and anthrac\$.clm.	1
<input type="checkbox"/>	L6	L5 or l4	4
<input type="checkbox"/>	L7	l4 and 425	1

END OF SEARCH HISTORY

1. 20040234609. 14 May 04. 25 Nov 04. Repeat sequence protein polymer active agent conjugates, methods and uses. Collier, Katherine D., et al. 424/488; 530/353 530/356 A61K038/17 A61K009/14.

☐ 2. 20030202989. 08 Apr 99. 30 Oct 03. USE OF TOXIN PEPTIDES AND/OR AFFINITY HANDLES FOR DELIVERING COMPOUNDS INTO CELLS. COLLIER, R. JOHN, et al. 424/236.1; 435/252.3 435/320.1 435/69.7 514/12 530/350 536/23.7 A61K039/02 C12P021/04 C12N001/21 C07K014/195 C07H021/04 C12N015/74.

☐ 3. 20030108556. 07 Jun 02. 12 Jun 03. Therapeutic uses of polyvalent compositions in infectious diseases. Mekalanos, John J., et al. 424/184.1; A61K039/00 A61K039/38.

☐ 4. 20020039588. 04 May 01. 04 Apr 02. Compounds and methods for the treatment and prevention of bacterial infection. Collier, R. John, et al. 424/246.1; 424/236.1 435/221 A61K039/07 C12N009/54.

☐ 5. 4071367. 21 Apr 76; 31 Jan 78. Channeled photosensitive element. Collier, John R., et al. 430/286.1; 430/281.1 430/327. G03C001/72.

☐ 6. 3984244. 27 Nov 74; 05 Oct 76. Process for laminating a channeled photosensitive layer on an irregular surface. Collier, John R., et al. 430/315; 156/230 427/145 427/369 430/327. G03C001/76 G03C005/00.

☐ 7. US20020039588A. Protecting humans against anthrax using mutant B groups (anthrax protective antigens) of the pore-forming binary A-B toxin of *Bacillus anthracis*. COLLIER, R J, et al. A61B000/00 A61K038/00 A61K039/00 A61K039/02 A61K039/07 A61K039/08 A61K039/395 A61P031/04 C07K000/00 C07K001/00 C07K014/32 C07K016/12 C12N009/54 C12N015/01.

☐ 8. 3502871. 24 Mar 70. PROCESS FOR MAKING A PROJECTION TRANSPARENCY BY EXPOSING A SUBLIMEABLE MATERIAL TO A PATTERN OF INFRARED RADIATION. COLLIER CHARLES P; MARX WALTER S JR. 430/201; 219/121.85.

☐ 9. 3454764. 08 Jul 69. PROCESS OF MAKING DIAZO COPIES BY SUBLIMATION OF REACTANT MATERIALS ONTO A COPY SHEET. COLLIER CHARLES P; SHELLABARGER JOHN L. 430/201; 101/470 430/141.

☐ 10. 3418468. 24 Dec 68. Process for the production of projection transparencies. MARX JR WALTER S; COLLIER CHARLES P. 430/201;.

☐ 11. 2813822. 19 Nov 57. Apparatus and method for calcining petroleum coke, coal and similar substances containing volatile combustible material. COLLIER ROBERT T. 201/25; 201/27 201/33 201/36 202/100 202/131 202/216 414/149 432/117.

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Term	Documents
ANTHRAS	0
ANTHRA	3429
ANTHRAA	9
ANTHRAAAMIDE	1

ANTHRAAAATE	2
ANTHRAAB	1
ANTHRAACIS	1
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ANTHRAADTHRAQUIN	1
ANTHRAAENE	1
ANTHRAAIC	2
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ANTHRAXYLON	1
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ANTHRAX-BACILLUS	1
ANTHRAX-BASED	3
ANTHRAX-BEARING	3
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ANTHRAX-BIOTERRORISM	2
ANTHRAX-BY-MAIL	1
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ANTHRAX-CHALLENGED	1
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ANTHRAX-CONTAMINATED	4
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ANTHRAX-DERIVED	1
ANTHRAX-DERM	4
ANTHRAX-EPIDEMIOLOGY	1
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ANTHRAX-INFECTED	9
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ANTHRAX-PRIMARILY	5
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ANTHRAX-PULMONARY	1

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ANTHRAX-RESISTANT	1
ANTHRAX-SENSITIVE	2
ANTHRAX-SPECIFIC	8
ANTHRAX-SURROGATE	1
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ANTHRACENE-AND/OR	1
ANTHRACENE-ANTHRACENE	2
ANTHRACENE-ANTHRACENE-ANTHRACENE	2
ANTHRACENE-A-CARBONYLAZIDE	1
ANTHRACENE-BASE	1
ANTHRACENE-BASED	75
ANTHRACENE-BEARING	1
ANTHRACENE-BETA-D-GALACTOPYRANOSIDE	1
ANTHRACENE-BETA-D-GALACTOPYRANOS-IDE	1
ANTHRACENE-BETA-D-GLUCURONIDE	1
ANTHRACENE-BETA-D-GLUCURONID-E	1
ANTHRACENE-BETA-D-GLUCU-RONIDE	1
ANTHRACENE-BISPHENOL	1
ANTHRACENE-BISRESORCIN	1
ANTHRACENE-BIS-ETHYLENE	1
ANTHRACENE-BIS-ETHYLENEKETAL	1
ANTHRACENE-BIS-PHENOL	1
ANTHRACENE-BIS-910	1
ANTHRACENE-BIS-910-DISELENIDE	1
ANTHRACENE-BORONATE	11
ANTHRACENE-CARBAZOLE	2
ANTHRACENE-CARBONYL	2
ANTHRACENE-CARBOXYLIC	1
ANTHRACENE-CATALYST	1
ANTHRACENE-CHLORANIL	3
ANTHRACENE-COATED	1
ANTHRACENE-CONDENSED	1
ANTHRACENE-CONSUMING	1
ANTHRACENE-CONTAINING	14
ANTHRACENE-CONTAMINATED	5
ANTHRACENE-CO-FLUORENE	5
"ANTHRACENE-CRCL.SUB.3"	1
ANTHRACENE-DARK	1
ANTHRACENE-DEPOSITED	1

ANTHRACENE-DERIVATIVE	2
ANTHRACENE-DERIVATIVES	1
ANTHRACENE-DERIVATIZED	2
ANTHRACENE-DERIVED	5
ANTHRACENE-DIBENZOQUINOXALINE	2
ANTHRACENE-DICARBOXYLIC	4
ANTHRACENE-DIMETHYLENE	1
ANTHRACENE-DIONE	5
ANTHRACENE-DIYL	14
ANTHRACENE-D10	1
"ANTHRACENE-D.SUB.10"	4
ANTHRACENE-ETHYLENE	2
ANTHRACENE-FAMILY	2
ANTHRACENE-FE	1
ANTHRACENE-FORMALDEHYDE	1
ANTHRACENE-FORMALIN	3
ANTHRACENE-FUMARIC	2
ANTHRACENE-FUNCTIONALIZED	1
ANTHRACENE-GLUCURONIDE	1
ANTHRACENE-HNO	10
ANTHRACENE-HTPB	1
ANTHRACENE-INDUCED	48
ANTHRACENE-INITIATED	1
ANTHRACENE-INITIATION	2
ANTHRACENE-INSOLUBLE	1
ANTHRACENE-IS	2
ANTHRACENE-ISOTHIO	1
ANTHRACENE-ISOTHIOCYANATE	3
ANTHRACENE-ITC	1
ANTHRACENE-I-NDUCED	1
ANTHRACENE-LABELED	2
ANTHRACENE-LAMBDA	1
ANTHRACENE-LIKE	3
ANTHRACENE-LINEAR	2
ANTHRACENE-LINKED	1
ANTHRACENE-LITHIUM	1
ANTHRACENE-L-SULFONATE	2
ANTHRACENE-L-SULFONIC	1

ANTHRACENE-MALEIC	9
ANTHRACENE-METHACRYLATE	3
ANTHRACENE-MODIFIED	1
ANTHRACENE-NAPHTHALENE	1
ANTHRACENE-NUCLEUS-CONTAINING	1
ANTHRACENE-N-VINYL	3
ANTHRACENE-N-VINYLCARBAZOLE	1
ANTHRACENE-OIL	1
ANTHRACENE-OIL-TYPE	1
ANTHRACENE-OLEFIN	14
ANTHRACENE-ONE	2
ANTHRACENE-ORGANOSILOXANE	1
ANTHRACENE-OXADIAZOLE	1
ANTHRACENE-PEG	1
ANTHRACENE-PENTADIENYLIRON	1
ANTHRACENE-PERYLENE	2
ANTHRACENE-PHENANTHRENE	3
ANTHRACENE-PHTHALOCYANINE	1
ANTHRACENE-PMDA	1
ANTHRACENE-PROPYLENE	1
ANTHRACENE-PURIFICATION	1
ANTHRACENE-PYREN	1
ANTHRACENE-PYRIDINE-SULFONYL	1
ANTHRACENE-PYROMELLITIC	1
ANTHRACENE-PYROMELLITICACIDDIANHYDRIDE	1
ANTHRACENE-PYROMELLITICDIANHYDRIDE	1
ANTHRACENE-RING	2
ANTHRACENE-RUBY	1
ANTHRACENE-SAMARIUM	1
ANTHRACENE-SENSITIZED	1
ANTHRACENE-SERIES	1
ANTHRACENE-SILANE	1
ANTHRACENE-SODIUM	1
ANTHRACENE-SPIROPYRROLIDINE	1
ANTHRACENE-SPIROPYRROLIDINES	1
ANTHRACENE-SPIRO-FURANS	1
ANTHRACENE-SPIRO-PYRROLIDINE	1
ANTHRACENE-SPIRO-PYRROLIDINES	1

ANTHRACENE-SPIRO-PYRROLIDONES	1
ANTHRACENE-SPIRO-PYRROLINDINES	1
ANTHRACENE-STYRENE	1
ANTHRACENE-SUBSTITUTED	1
ANTHRACENE-SULFONIC	5
ANTHRACENE-TETRACARBOXYLIC	1
ANTHRACENE-TETRACENE	2
ANTHRACENE-TETRACYANO BENZENE	2
ANTHRACENE-TETRAFLUOROBORATE	1
ANTHRACENE-TRIYL	1
ANTHRACENE-TYPE	11
ANTHRACENE-VINYLENE	3
ANTHRACENE-X-THIOCARBOXYLIC	1
ANTHRACENE-YELLOW	1
ANTHRACENE-YTTERBIUM	1
ANTHRACENE-ZNS-AROMATIC	1
ANTHRACENE-1	1
ANTHRACENE-100	1
ANTHRACENE-102	1
ANTHRACENE-1112	2
ANTHRACENE-12	1
ANTHRACENE-1210-TRIOL	2
ANTHRACENE-125-TRIYL	1
ANTHRACENE-12-DICARBOXYLIC	4
ANTHRACENE-12-DIYL	1
ANTHRACENE-12-OL	3
ANTHRACENE-13-DICARBOXYLIC	6
ANTHRACENE-13-DIYL	1
ANTHRACENE-14DIYL	1
ANTHRACENE-14910-TETRONE	1
ANTHRACENE-14-DICARBONYL	2
ANTHRACENE-14-DICARBOXYLIC	11
ANTHRACENE-14-DIONE	3
"ANTHRACENE-14-DIONE.SUP.17"	2
ANTHRACENE-14-DIYL	40
ANTHRACENE-14-QUINONE	1
ANTHRACENE-14-QUINONES	5
ANTHRACENE-15	3

ANTHRACENE-15-BIS	2
ANTHRACENE-15-DI	7
ANTHRACENE-15-DIACID	3
ANTHRACENE-15-DICARBONYL	1
ANTHRACENE-15-DICARBOXYLIC	8
ANTHRACENE-15-DIISOCYANATE	1
ANTHRACENE-15-DIYL	1
ANTHRACENE-16-BIS	2
ANTHRACENE-18-BIS	5
ANTHRACENE-18-DICARBOXALDEHYDE	3
ANTHRACENE-19-DIACID	4
ANTHRACENE-19-DICARBOXYLIC	6
ANTHRACENE-19-DIMETHYLENE	1
ANTHRACENE-1-AMINO-9	1
ANTHRACENE-1-AMINO-910-DIMETHYLENE	3
ANTHRACENE-1-BROMO-910-DIMETHYLENE	3
ANTHRACENE-1-CARBONITRILE	1
ANTHRACENE-1-CARBONYL	1
ANTHRACENE-1-CARBOXYLATE	1
ANTHRACENE-1-CARBOXYLIC	11
ANTHRACENE-1-CHLORO-9	1
ANTHRACENE-1-CHLORO-910-DIMETHYLENE	3
ANTHRACENE-1-METHANOL	1
ANTHRACENE-1-METHYL-9	1
ANTHRACENE-1-METHYL-910-DIMETHYLENE	3
ANTHRACENE-1-NITRO-9	1
ANTHRACENE-1-NITRO-910-DIMETHYLENE	3
ANTHRACENE-1-SULFONATE	21
ANTHRACENE-1-SULFONIC	16
ANTHRACENE-1-SULPHONIC	1
ANTHRACENE-1-THIOL	1
ANTHRACENE-2	8
ANTHRACENE-2CARBOXYLIC	1
ANTHRACENE-2367-TETRACARBOXYLIC	17
ANTHRACENE-2367-TETRACARBOXYLLC	1
ANTHRACENE-2367-TETRAC-ARBOXYLIC	2
ANTHRACENE-2367-TETRAYL	3
ANTHRACENE-236-TRIYL	3

ANTHRACENE-23-DIALDEHYDE	1
ANTHRACENE-23-DICARBOXALD	1
ANTHRACENE-23-DICARBOXALDEHYDE	13
ANTHRACENE-23-DICARBOXALDEHYDEA	4
ANTHRACENE-23-DICARBOXALDEHYDEPRIMARY	1
ANTHRACENE-23-DICARBOXYLATE	11
ANTHRACENE-23-DICARBOXYLIC	13
ANTHRACENE-23-DICARBOXYNAPHTHALENE	1
ANTHRACENE-25-DICARBOXYLIC	4
ANTHRACENE-25-DICARBOXYLI-C	1
ANTHRACENE-26	2
ANTHRACENE-26-DICARBONYL	2
ANTHRACENE-26-DICARBOXYLIC	8
ANTHRACENE-26-DICARBOX-YLIC	1
ANTHRACENE-26-DIISOCYANATE	1
ANTHRACENE-26-DISULFONIC	3
ANTHRACENE-26-DIYL	4
ANTHRACENE-27-DIYL	3
ANTHRACENE-28-DI	9
ANTHRACENE-2-CARBONYL	1
ANTHRACENE-2-CARBOX	2
ANTHRACENE-2-CARBOXAMIDE	1
ANTHRACENE-2-CARBOXYLATE	1
ANTHRACENE-2-CARBOXYLIC	13
ANTHRACENE-2-CYANOACRYLOYL	1
ANTHRACENE-2-PHENYLANTHRACENE	1
ANTHRACENE-2-SULFONATE	18
ANTHRACENE-2-SULFONATES	5
ANTHRACENE-2-SULFONIC	17
ANTHRACENE-2-SULFONY	2
ANTHRACENE-2-SULFONYL	4
ANTHRACENE-2-SULPHONIC	2
ANTHRACENE-2-YL]-PROPAN-2-OL	1
"ANTHRACENE-2.8"	1
ANTHRACENE-3	1
ANTHRACENE-310-DIYL	1
ANTHRACENE-3-BENZYLIDENE	1
ANTHRACENE-3-BENZYLIDENE-AMINOCARBAZOLE	2

ANTHRACENE-3-CARBOXYLIC	1
ANTHRACENE-4	1
ANTHRACENE-4A-CARBOXYLIC	3
ANTHRACENE-4-SULFONIC	1
ANTHRACENE-510-DICARBOXYLIC	3
ANTHRACENE-510-DIONE	2
ANTHRACENE-512-DIONES	1
ANTHRACENE-512-QUINONE	1
ANTHRACENE-56-MALEIMIDO	1
ANTHRACENE-5-SULFONIC	2
ANTHRACENE-611-DIONE	1
ANTHRACENE-7	8
ANTHRACENE-712	1
ANTHRACENE-712DIONE	1
ANTHRACENE-712-DION	1
ANTHRACENE-712-DIONE	189
ANTHRACENE-7-ONE	9
ANTHRACENE-7-ONES	5
ANTHRACENE-7-12-DIONE	1
"ANTHRACENE-7.12"	2
ANTHRACENE-86	1
ANTHRACENE-9	17
ANTHRACENE-9METHANOL	1
ANTHRACENE-910	2
ANTHRACENE-910DIONE	3
ANTHRACENE-910-ANHYDRIDE	1
ANTHRACENE-910-BIS-CARBONYL	3
ANTHRACENE-910-BIS-CARBONYLHYDRAZONE	1
ANTHRACENE-910-BIS-CARBONYLHYDRAZONES	1
ANTHRACENE-910-BIS-CARBONYL-HYDRAZONES	1
ANTHRACENE-910-BIS-NITRILE	1
ANTHRACENE-910-DIACRYLIC	1
ANTHRACENE-910-DIALDEHYDE	1
ANTHRACENE-910-DICARBONITRILE	5
ANTHRACENE-910-DICARBONYL	1
ANTHRACENE-910-DICARBOXALDEHYDE	2
ANTHRACENE-910-DICARBOXALDEHYDES	1
ANTHRACENE-910-DICARBOXYLIC	6

ANTHRACENE-910-DIETHYLAMINO	1
ANTHRACENE-910-DIIL	2
ANTHRACENE-910-DIISOCYANATE	1
ANTHRACENE-910-DIMETHYLENE	4
ANTHRACENE-910-DINITRILEOXIDE	1
ANTHRACENE-910-DIO	1
ANTHRACENE-910-DIOL	1
ANTHRACENE-910-DION	1
ANTHRACENE-910-DIONE	30
ANTHRACENE-910-DIONES	24
"ANTHRACENE-910-DIONE.[METHOD"	1
"ANTHRACENE-910-DIONE.[M-ETHOD"	1
ANTHRACENE-910-DIOYL	1
ANTHRACENE-910-DIO-NE	1
"ANTHRACENE-910-DIO-NE.[METHOD"	1
ANTHRACENE-910-DIPROPIONIC	5
ANTHRACENE-910-DIPROPION-IC	1
ANTHRACENE-910-DIPROPRIONIC	1
ANTHRACENE-910-DIYL	31
ANTHRACENE-910-DIYLS	2
ANTHRACENE-910-DI-ONE	1
ANTHRACENE-910-IMINES	2
ANTHRACENE-9-ALDEHYDE	38
ANTHRACENE-9-BORONIC	2
ANTHRACENE-9-CA	1
ANTHRACENE-9-CARBALDEHYDE	26
ANTHRACENE-9-CARBONYL	12
ANTHRACENE-9-CARBONYLAMINO	1
ANTHRACENE-9-CARBONYLETHYL	1
ANTHRACENE-9-CARBONYLO	1
ANTHRACENE-9-CARBONYL-N-BUTYL	1
ANTHRACENE-9-CARBOX	1
ANTHRACENE-9-CARBOXALDEHYDE	10
ANTHRACENE-9-CARBOXAMIDE	4
ANTHRACENE-9-CARBOXYALDEHYDE	1
ANTHRACENE-9-CARBOXYETHYL	13
ANTHRACENE-9-CARBOXYLATE	12
ANTHRACENE-9-CARBOXYLIC	57

ANTHRACENE-9-CARBOXY-ETHYL	1
ANTHRACENE-9-CARBOXY-N-BUTYL	1
ANTHRACENE-9-METHANOL	16
ANTHRACENE-9-PROPIONATE	10
ANTHRACENE-9-PROPIONIC	2
ANTHRACENE-9-SULFONATES	3
ANTHRACENE-9-SULFONIC	14
ANTHRACENE-9-SULFONYL	4
ANTHRACENE-9-SULPHONIC	1
ANTHRACENE-9-YL	6
ANTHRACENE-9-YL-CARBONYL	1
"ANTHRACENE-9-YL-[4"	1
"ANTHRACENE-9-YL-[4-PHENYL"	1
"ANTHRACENE-9.10-DIIL"	1
ANTHRACENE-9/1	1
ANTHRACENE-9/10-DIONES	6
"ANTHRACENE.ABOUT.FORMALDEHYDE"	1
"ANTHRACENE.CNTDOT"	1
"ANTHRACENE.IADD"	1
"ANTHRACENE.MULTIDOT.3"	1
"ANTHRACENE.SUP"	1
"ANTHRACENE.SUP-2"	1
"ANTHRACENE.SUP.A"	1
"ANTHRACENE.SUP.CIRCLE"	1
"ANTHRACENE.SUP.CRCLBAR"	1
"ANTHRACENE.SUP.F"	1
"ANTHRACENE.SUP.1"	6
"ANTHRACENE.SUP.2"	1
"ANTHRACENE.SUP.28"	1
"ANTHRACENE.TETRAHYDROFURAN"	1
"ANTHRACENE.VERTLINE.375"	1
"ANTHRACENE.3"	3
ANTHRACENE+ARH	5
ANTHRACENE+MALEIC	1
"ANTHRACENE+.ABOUT.10%"	2
ANTHRACENE/ACETIC	2
ANTHRACENE/ADDUCT	1
ANTHRACENE/ADDUCTS	1

ANTHRACENE/ALKYLATED	1
ANTHRACENE/ANTHRAQUIONE	2
ANTHRACENE/ANTHRQUIONE	1
ANTHRACENE/CARBAZOLE	1
ANTHRACENE/COUMARIN	3
"ANTHRACENE/C.SUB.60"	11
ANTHRACENE/DIARYLIODONIUM	2
ANTHRACENE/DMF	5
ANTHRACENE/ETHYL	7
ANTHRACENE/HOUR/GM	1
ANTHRACENE/HOUR/GRAMS	1
ANTHRACENE/HR/GM	1
ANTHRACENE/IBC	7
ANTHRACENE/ISOBUTYL	7
"ANTHRACENE/K.SUP.+"	1
ANTHRACENE/LI	3
ANTHRACENE/LITER	1
ANTHRACENE/MALEIC	7
ANTHRACENE/METHYLENE	1
ANTHRACENE/MG	2
ANTHRACENE/NAPHTHALENE	1
ANTHRACENE/NMP	5
ANTHRACENE/OLEFIN	2
ANTHRACENE/O-CHLORANIL	11
ANTHRACENE/PERYLENE	3
ANTHRACENE/PHENANTHRENE	5
ANTHRACENE/RHODAMINE	3
ANTHRACENE/STACHYOSE	1
ANTHRACENE/STYRENE	1
ANTHRACENE/TETRACENE	3
ANTHRACENE/TETRACYANOQUINODIMETHANE	4
ANTHRACENE/TETRALIN	1
ANTHRACENE/TETRAPHENYLPORPHYRIN	3
ANTHRACENE/THF	6
ANTHRACENE/TPTA	1
"ANTHRACENE/TRIETHYLAMINE/DICHLOROMETHANE/10.DEGREE-15.DEGREE"	1
ANTHRACENE/TRIETHYLAMINE/METHYLENE	1

ANTHRACENE/1234-TETRAHYDROANTHRACENE	1
ANTHRACENE/2-CYANOACRYLIC	7
ANTHRACENE/2-CYANOACRYLOYL	7
ANTHRACENE/2-CYNOACRYLIC	1
"ANTHRACENE:MGBR.SUB.2"	2
"ANTHRACENE:MGCL.SUB.2"	2
ANTHRACENE:910-DIHYDROANTHRACENE	2
"ANTHRACENE["	1
ANTHRACENE]	34
ANTHRACENE]PHENOL	1
ANTHRACENE]SALICYLALDEHYDE	1
"ANTHRACENE].SUP.1"	1
"ANTHRACENE>"	6
ANTHRACENE*	3
"ANTHRACENE*.SUP.3"	1
ANTHRACENIC	56
ANTHRACENIDE	35
ANTHRACENIDES	14
ANTHRACENIDE-COATED	1
ANTHRACENIDIANE	1
ANTHRACENIMINE	2
ANTHRACENIMINES	2
ANTHRACENITRIOL	1
ANTHRACENLY	1
ANTHRACENLYL	1
ANTHRACENMALEAMIC	1
ANTHRACENMETHYL	1
ANTHRACENNE	3
ANTHRACENO	62
ANTHRACENOATE	1
"ANTHRACENOBENZO[DEF]CARBAZOLES"	1
ANTHRACENOCARBAZOLES	1
ANTHRACENOL	20
ANTHRACENOLS	6
ANTHRACENOL-2	1
ANTHRACENON	7
ANTHRACENONE	78
ANTHRACENONES	14

ANTHRACENONE1010	1
ANTHRACENONE1010-BIS	1
ANTHRACENONE-DERIVED	2
ANTHRACENON-2	1
ANTHRACENON-2YLIDENE	1
ANTHRACENON-2-YL	1
ANTHRACENON-2-YLCARBONY	1
ANTHRACENON-2-YLIDENE	1
ANTHRACENOPHA	2
ANTHRACENOPHAN	3
ANTHRACENOPHANE	7
ANTHRACENOPHANEBASED	4
ANTHRACENOPHANES	6
ANTHRACENOPHANE4	3
"ANTHRACENOPHANE4-FLUORO-[2.2]"	3
ANTHRACENOPHANE-BASED	6
"ANTHRACENOPHANE-4-FLUORO-[2.2]"	3
ANTHRACENOPHAN-E	3
ANTHRACENOPHA-NE	2
ANTHRACENOPYRAN	1
ANTHRACENOQUINONE	1
ANTHRACENOSE	1
ANTHRACENOTHIOPHENES	3
ANTHRACENOTHIOPYRAN	1
ANTHRACENOTHIOXANTHENES	1
ANTHRACENOX	1
ANTHRACENOXY	62
ANTHRACENOXY]	1
ANTHRACENOYL	19
ANTHRACENOYLAMINO	1
ANTHRACENO-CROWN	1
ANTHRACENO-PHANE	2
ANTHRACENO-THIOPHENES	1
ANTHRACENO-1212-ANTHRACENE	1
"ANTHRACENO-[23-C]-PYRAN-3-YL-KETONE"	1
"ANTHRACENO[21]"	12
"ANTHRACENO[21-A]"	1
"ANTHRACENO[21-A]ANTHRACENE"	5

"ANTHRACENO[21-M"	1
"ANTHRACENO[23"	1
"ANTHRACENO[23-C]PYRAN-3-YL"	1
"ANTHRACENO[345"	1
"ANTHRACENO[78"	2
ANTHRACENPNE	1
ANTHRACENREIHE	1
ANTHRACENS	1
ANTHRACENSULFONIC	1
ANTHRACENSULPHONATE	1
ANTHRACENT	1
ANTHRACENTATE	1
ANTHRACENTETRACARBOXYLIC	1
ANTHRACENTETRAYL	2
ANTHRACENTRIOL	17
ANTHRACENTYL	7
ANTHRACENY	7
ANTHRACENYI	1
ANTHRACENYL	5113
ANTHRACENYLACETYLENE	1
ANTHRACENYLACRIDAN	2
ANTHRACENYLALANINE	7
ANTHRACENYLALDEHYDE	1
ANTHRACENYLALKYL	3
ANTHRACENYLALUMINATE]	3
ANTHRACENYLAMINE	14
ANTHRACENYLAMINEPHENYLMETHYLAMINE	1
ANTHRACENYLAMINO	13
"ANTHRACENYLBICYCLO[2.2.1]HEPT"	1
ANTHRACENYLBORIC	2
ANTHRACENYLBORONIC	14
ANTHRACENYLCARBONYL	9
ANTHRACENYLCARBONYLAMINO	3
ANTHRACENYLCARBONYLOXY	2
ANTHRACENYLCARBONYLOXYETHYL	1
ANTHRACENYLCARBONYLOXYMETHYL	1
ANTHRACENYLCYCLOPENTADIENE	1
ANTHRACENYLENE	201

ANTHRACENYLENES	1
ANTHRACENYLETHYNYL	1
ANTHRACENYLHEXACENYL	3
ANTHRACENYLHYDROXYMETHYL	1
ANTHRACENYLIDE	2
ANTHRACENYLIDEN	1
ANTHRACENYLIDENE	14
ANTHRACENYLIDENE BISMETHYLENE	2
ANTHRACENYLIDENE]	2
ANTHRACENYLIDENE]-N-METHYL-PERCHLO	1
ANTHRACENYLIDENE]-N-METHYL-PERCHLORATE	1
ANTHRACENYLIDENE]-N-METHYL-PERCHL-ORATE	1
ANTHRACENYLIDEN-E	1
ANTHRACENYLIMINO	2
ANTHRACENYLINDENYL	6
ANTHRACENYLLITHIUM	1
ANTHRACENYLM	2
ANTHRACENYLMAGNESIUM	1
ANTHRACENYLMETHYLALCOHOL	2
ANTHRACENYLMETHA	1
ANTHRACENYLMETHACRYLATE	5
ANTHRACENYLMETHANE	1
ANTHRACENYLMETHANOL	1
ANTHRACENYLMETHOXY	54
ANTHRACENYLMETHYL	181
ANTHRACENYLMETHYLALCOHO	1
ANTHRACENYLMETHYLALCOHOL	3
ANTHRACENYLMETHYLALCOHO-L	1
ANTHRACENYLMETHYLAMINE	11
ANTHRACENYLMETHYLAMINO	1
ANTHRACENYLMETHYLATED	2
ANTHRACENYLMETHYLCIN	1
ANTHRACENYLMETHYLCINC	2
ANTHRACENYLMETHYLCINCHO	2
ANTHRACENYLMETHYLCINCHONIDIUM	2
ANTHRACENYLMETHYLCINCHONIDIUM	3
ANTHRACENYLMETHYLENE	1
ANTHRACENYLMETHYLENEMALONONITRILE	1

ANTHRACENYLMETHYLIDENEAMINO	1
ANTHRACENYLMETHYLIDENEAMINODIPHENYL	1
ANTHRACENYLMETHYLIDYNE	3
ANTHRACENYLMETHYLMALONDINITRILE	4
ANTHRACENYLMETHYLMALONDINITRYL	1
ANTHRACENYLMETHYLMALONIC	2
ANTHRACENYLMETHYLMETHACRYLATE	2
ANTHRACENYLMETHYLOXYCARBONYL	6
ANTHRACENYLMETHYLQUININIUM	2
ANTHRACENYLMETHYLSELENO	4
ANTHRACENYLMETHYLTHIO	5
ANTHRACENYLNETHYL	1
ANTHRACENYLOXADIAZOL	1
ANTHRACENYLOXADIAZOLYL	2
ANTHRACENYLOXADIAZOL-YL	1
ANTHRACENYLOXIDE	1
ANTHRACENYLOXY	30
ANTHRACENYLOXYCARBONYL	1
ANTHRACENYLPH	1
ANTHRACENYLPHENYL	1
ANTHRACENYLPHOSPHINE	5
ANTHRACENYLPOTASSIUM	5
ANTHRACENYLPROPYL	6
ANTHRACENYLS	13
ANTHRACENYLSALICYLALDIMINE	1
ANTHRACENYLSELENO	5
ANTHRACENYLSILANETRIOL	1
ANTHRACENYLSULFIDE	6
ANTHRACENYLSULFINYL	1
ANTHRACENYLSULFONYL	6
ANTHRACENYLSULFONYLOXY	2
ANTHRACENYLSULFOXIDE	6
"ANTHRACENYLTETRACYCLO[4.4.0.1.SUP.25.1.SUP.710"	1
ANTHRACENYLTHIO	7
ANTHRACENYLTRIMETHYLSILYLACETYLENE	1
ANTHRACENYL9H	1
ANTHRACENYL-AMINO	1
ANTHRACENYL-BETA-D-GALACTOPYRANOSIDE	1

"ANTHRACENYL-CH.SUB.2"	1
ANTHRACENYL-ETHYLTOSYLATE	1
ANTHRACENYL-ETHYNYL	1
ANTHRACENYL-GLYOXALATES	1
ANTHRACENYL-GROUPS	1
ANTHRACENYL-HYDROXYMETHYL	1
ANTHRACENYL-IDENE]-N-METHYL-PERCHL	1
ANTHRACENYL-IDENE]-N-METHYL-PERCHLORATE	1
ANTHRACENYL-IDEN-E]-N-METHYL-PERCHLORATE	1
ANTHRACENYL-MOETIES	3
ANTHRACENYL-POLYMER	1
"ANTHRACENYL-R.SUB.5"	10
ANTHRACENYL-SALICYLALDIMINE]	1
ANTHRACENYL-SODIUM	1
"ANTHRACENYL-SO.SUB.2"	1
ANTHRACENYL-SUBSTITUTED	4
ANTHRACENYL-910-DIONE	1
ANTHRACENYL-9-ETHANESULFONYL	4
ANTHRACENYL-9-ETHAN-ESULFONYL	3
ANTHRACENYL]	15
ANTHRACENYL]AMINO	1
ANTHRACENYL]AMINO]	2
ANTHRACENYL]AMINO]ETHANE	1
ANTHRACENYL]AMINO]ETHANESULP	1
ANTHRACENYL]AMINO]-5-METHYL-BENZENESULFONIC	1
ANTHRACENYL]BENZOIC	4
ANTHRACENYL]M	1
ANTHRACENYL]MET	1
ANTHRACENYL]METH	1
ANTHRACENYL]METHY	3
ANTHRACENYL]METHYL	3
ANTHRACENYL]METHYLENE1	1
ANTHRACENYL]METHYLENE]	6
ANTHRACENYL]METHYLENE]HYDRAZINO]	2
ANTHRACENYL]METHYLENE]1	1
ANTHRACENYL]METHYLENE]-1	6
ANTHRACENYL]METHYL]AMINO]	1
ANTHRACENYL]OXY]	1

ANTHRACENYL]-N	1
"ANTHRACENYL][11"	1
ANTHRACEN10	2
ANTHRACEN7	2
ANTHRACEN7-ONE	1
ANTHRACEN9	1
"ANTHRACEN-ALPHA.BETA-O"	2
ANTHRACEN-CARBONYL	1
ANTHRACEN-DERIVATIVES	1
ANTHRACEN-DIYL	2
ANTHRACEN-E	9
ANTHRACEN-E-910-DIONE	1
ANTHRACEN-ONES	1
ANTHRACEN-OPHANE	1
ANTHRACEN-X-YL	1
ANTHRACEN-1	1
ANTHRACEN-10-ONE	1
ANTHRACEN-10-YL	1
ANTHRACEN-110-DINYL	2
ANTHRACEN-112	21
ANTHRACEN-14-DIYL	5
ANTHRACEN-15-DIYL	2
ANTHRACEN-18-DIYL	2
ANTHRACEN-19-DICARBOXYLIC	1
ANTHRACEN-19-DIYL	2
ANTHRACEN-1-ONE	2
ANTHRACEN-1-YL	11
ANTHRACEN-1-YLIDENE]HEXA-24-DIENOIC	3
ANTHRACEN-1-YL-CO	1
ANTHRACEN-2	1
ANTHRACEN-210-DINYL	2
ANTHRACEN-23-DIYL	2
ANTHRACEN-26-DIYL	2
ANTHRACEN-27-DIYL	2
ANTHRACEN-29-DIYL	2
ANTHRACEN-2-CARBOXYLATE	1
ANTHRACEN-2-YL	15
ANTHRACEN-2-YLCARBONYLAMINO	1

ANTHRACEN-2-YL-AMINE	3
ANTHRACEN-2-YL-PYRIDIN-4-YLMETHYL-AMINE	3
ANTHRACEN-2-YL-QUINOLIN	1
ANTHRACEN-2-YL-QUINOLIN-4-YLMETHYL-AMINE	2
ANTHRACEN-2-Y-L	1
ANTHRACEN-3-YLTHIO	1
ANTHRACEN-5A-YL	1
ANTHRACEN-5-CARBONYL	1
ANTHRACEN-5-OL	2
ANTHRACEN-5-YLMETHYL]	1
ANTHRACEN-6-YL	1
ANTHRACEN-7ONE	2
ANTHRACEN-712-DIONE	1
ANTHRACEN-7-ONE	38
ANTHRACEN-7-YL	1
ANTHRACEN-8	1
ANTHRACEN-8-ONE	1
ANTHRACEN-9	3
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ANTHRACEN-9YLMETHYL	1
ANTHRACEN-9YLMETHYL]-METHYL-CARBAMIC	1
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ANTHRACEN-910-DIYL	7
ANTHRACEN-910-IMINES	4
ANTHRACEN-9-OL	1
ANTHRACEN-9-ONE	3
ANTHRACEN-9-ONE]	1
ANTHRACEN-9-Y	1
ANTHRACEN-9-YL	30
ANTHRACEN-9-YLBO	1
ANTHRACEN-9-YLBOR	1
ANTHRACEN-9-YLBORIC	2
ANTHRACEN-9-YLME	1
ANTHRACEN-9-YLMET	1
ANTHRACEN-9-YLMETHANESULFANYL	1
ANTHRACEN-9-YLMETHANESULFA-NYL	1
ANTHRACEN-9-YLMETHANESULFONYL	1
ANTHRACEN-9-YLMETHANETHIOL	1

ANTHRACEN-9-YLMETHOX	1
ANTHRACEN-9-YLMETHOXY	3
ANTHRACEN-9-YLMETHY	1
ANTHRACEN-9-YLMETHYL	16
ANTHRACEN-9-YLMETHYLENE	1
ANTHRACEN-9-YLMETHYLENE-AMINO	4
ANTHRACEN-9-YLMETHYLENE-AMINO GUAN	1
ANTHRACEN-9-YLMETHYLENE-AMINO GUANIDINE	3
ANTHRACEN-9-YLMETHYL]	1
ANTHRACEN-9-YLMETHYL]-METHYL-CARBAMIC	1
ANTHRACEN-9-YL-METHYL	1
ANTHRACEN-9-YL-1-METHYL	1
"ANTHRACEN-9-YL-[1"	2
"ANTHRACEN-9-YL-[14]BIPERIDINYL-1-YL-METHANONE"	1
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ANTHRACEN-9-YL]	1
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ANTHRACEN-9-YL]-99	1
ANTHRACEN-9-YL]-99-DIMETHYLFLUOREN	1
"ANTHRACEN[21"	1
"ANTHRACEN[21-A]ANTHRACENE"	1
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ANTHRACHINON-PHTALOCYANIN	2
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ANTHRACICLINE	1
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ANTHRACIDE-SEE	1
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ANTHRACIET	1
ANTHRACIL	4
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ANTHRACIN	1321
ANTHRACINA	4
ANTHRACINDIONE	2
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ANTHRACINE-9-YLMETHYLTHIO	1
ANTHRACINYI	1
ANTHRACINYI-SUBSTITUTION	1
ANTHRACINYL	28

ANTHRACINYL-SUBSTITUTION	5
ANTHRACIO	1
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ANTHRACISVS	1
ANTHRACIS16S	1
"ANTHRACIS16S.SUB"	1
"ANTHRACIS16S.SUB-1337"	1
ANTHRACIS-A	4
ANTHRACIS-ANTHRAX	1
ANTHRACIS-CONTAINING	1
ANTHRACIS-DERIVED	1
ANTHRACIS-GVATKGLNVHKGSSDWGPVAGYIP	1
ANTHRACIS-INDUCED	1
ANTHRACIS-INFECTED	1
ANTHRACIS-LIKE	2
ANTHRACIS-MACROPHAGE	1
ANTHRACIS-MIMIC	1
ANTHRACIS-PROCEEDINGS	1
ANTHRACIS-SELECTIVE	1
ANTHRACIS-SPECIFIC	12
ANTHRACIS-STEAMS	1
ANTHRACIS-STEARNES	1
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"ANTHRACIS.SUP.1"	2
"ANTHRACIS.SUP.7"	1
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ANTHRACITE-COLOURED	2
ANTHRACITE-CONTAINING	1
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ANTHRACITE-GARNET	1
ANTHRACITE-GRAPHITE	11
ANTHRACITE-GRAY	2
ANTHRACITE-GREY	1
ANTHRACITE-KLINKER	1
ANTHRACITE-LIKE	2
ANTHRACITE-NANCY-E	1
ANTHRACITE-PITCH-COKE	1
ANTHRACITE-SAND	1
ANTHRACITE-STOKED	1
ANTHRACITE-TREATED	1
ANTHRACITE-TYPE	1
ANTHRACITE-WATER	1
"ANTHRACITE.SUP.1"	2
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ANTHRACITE/GARNET	1
ANTHRACITE/GRAPHITE	1
ANTHRACITE/SAND	1
ANTHRACITE/TON	1
"ANTHRACITE:B.SUB.2"	1
"ANTHRACITE:NA.SUB.2"	1
"ANTHRACITE>"	1
ANTHRACITE***	1
ANTHRACITIC	93
ANTHRACITIC-GRAPHITIC	1
ANTHRACITIES	4
ANTHRACITS	1
ANTHRACITY	1
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ANTHRACIVE	1

ANTHRACLUINONE	1
ANTHRACLY	5
ANTHRACNASE	5
ANTHRACNCSE	1
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ANTHRACNOCE	1
ANTHRACNOS	1
ANTHRACNOSE	1179
ANTHRACNOSES	2
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ANTHRACNOSE-LIKE	1
ANTHRACNOSE-RESISTANT	2
"ANTHRACNOSE.SUP.1"	1
"ANTHRACNOSE.SUP.2"	1
ANTHRACNOSE]	1
ANTHRACNOSIS	5
ANTHRACOBIA	8
ANTHRACOCYANINES	7
ANTHRACOID	2
ANTHRACOIDEA	26
ANTHRACOIDES	1
ANTHRACONONES	1
ANTHRACONYL	1
ANTHRACOPHILUM	3
ANTHRACOSE	1
ANTHRACOSE-RESISTANT	1
ANTHRACOSILICOSIS	6
ANTHRACOSIS	127
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ANTHRACQUINONES	1
ANTHRACRENE	1
ANTHRACRENEDIONE	1
ANTHRACROSE	2
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ANTHRACTE	1
ANTHRACTIC	1

ANTHRACTIE	9
ANTHRACTITE	1
ANTHRACTS	5
ANTHRACUINONE	2
ANTHRACUINONE-2-ALDEHYDE	1
ANTHRACUS	33
ANTHRACVCLINES	1
ANTHRACYANINE	15
ANTHRACYANINES	4
ANTHRACYANINS	2
ANTHRACYCHNE	1
ANTHRACYCIINE	2
ANTHRACYCL	1
ANTHRACYCLEN	18
ANTHRACYCLIC	25
ANTHRACYCLIDINE	1
ANTHRACYCLIDINE-ACETIC	1
ANTHRACYCLIENE	1
ANTHRACYCLIENS	1
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ANTHRACYCLIN	95
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ANTHRACYCLINEDIONE-RESISTANT	1
ANTHRACYCLINEGLYCOSIDE	1
ANTHRACYCLINES	3375
ANTHRACYCLINESANTHRACYCLINES	1
ANTHRACYCLINES-CURRENT	4
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ANTHRACYCLINES-V	1
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ANTHRACYCLINES/CYCLOPHOSPHAMIDE	1

ANTHRACYCLINES/DNA	13
ANTHRACYCLINE-AGENT	1
ANTHRACYCLINE-AGLYCONES	1
ANTHRACYCLINE-ANTIBODY	4
ANTHRACYCLINE-ASSOCIATED	4
ANTHRACYCLINE-BASE	1
ANTHRACYCLINE-BASED	39
ANTHRACYCLINE-CEPHALOSPORIN	1
ANTHRACYCLINE-CLASS	1
ANTHRACYCLINE-CONJUGATES	1
ANTHRACYCLINE-CONTAINING	17
ANTHRACYCLINE-CYTARABINE	5
ANTHRACYCLINE-DERIVED	1
ANTHRACYCLINE-DNA	2
ANTHRACYCLINE-FORMALDEHYDE	3
ANTHRACYCLINE-FREE	1
ANTHRACYCLINE-GLYCOSIDE	1
ANTHRACYCLINE-HCL	1
ANTHRACYCLINE-HPMA	1
ANTHRACYCLINE-HYDRAZONE	1
ANTHRACYCLINE-HYDROXYSUCCINIMIDE	3
ANTHRACYCLINE-IMMUNOCONJUGATES	3
ANTHRACYCLINE-INCORPORATED	1
ANTHRACYCLINE-INDUCED	38
ANTHRACYCLINE-INDUCING	1
ANTHRACYCLINE-INSENSITIVE	1
ANTHRACYCLINE-INSENSITI-VE	1
ANTHRACYCLINE-IRON	13
ANTHRACYCLINE-LIGAND	3
ANTHRACYCLINE-LIKE	1
ANTHRACYCLINE-LINKER-THYMIDINE	1
ANTHRACYCLINE-LIPID	1
ANTHRACYCLINE-LIPOSOME	1
ANTHRACYCLINE-MALEIMIDE	1
ANTHRACYCLINE-MALEINIMIDE	3
ANTHRACYCLINE-MEDIATED	2
ANTHRACYCLINE-NON-PRODUCING	2
ANTHRACYCLINE-OLIGOPEPTIDE	1

ANTHRACYCLINE-PIGMENT	1
ANTHRACYCLINE-PRODUCING	12
ANTHRACYCLINE-RESISTANT	13
ANTHRACYCLINE-SENSITIVE	6
ANTHRACYCLINE-SPACER-BETA-GLUCURONIDE	1
ANTHRACYCLINE-SUBSTITUTED	1
ANTHRACYCLINE-SUBSTITUT-ED	1
ANTHRACYCLINE-TREATED	2
ANTHRACYCLINE-TYPE	19
ANTHRACYCLINE+SELF	1
ANTHRACYCLINE+SELF-SACRIFICING	1
ANTHRACYCLINE/ANTI-ERBB2	1
ANTHRACYCLINE/ARM	1
ANTHRACYCLINE/CYCLOPHOSPHAMIDE	7
ANTHRACYCLINE/MDR	1
ANTHRACYCLINE/PL	1
ANTHRACYCLINE/PROTEIN	3
ANTHRACYCLINE:ANTIBODY	3
ANTHRACYCLINE:LIGAND	3
ANTHRACYCLINE:PROTEIN	1
ANTHRACYCLING	1
ANTHRACYCLINIC	2
ANTHRACYCLINIES	1
ANTHRACYCLINOE	1
ANTHRACYCLINOLS	1
ANTHRACYCLINON	1
ANTHRACYCLINONE	91
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ANTHRACYCLINONES-14-DIMETHYL-4- DEMETHOXYDAUNOMYCINONE	1
ANTHRACYCLINONE-GLYCOSIDATING	1
ANTHRACYCLINS	115
ANTHRACYCLIN-BASED	1
ANTHRACYCLIN-DERIVATIVES	1
ANTHRACYCLIN-GLYCOSIDE	1
ANTHRACYCLIN-RESISTANT	1
ANTHRACYCLIN-TUMORISTATICA	2
ANTHRACYCLIN/ALKYLATING	4

ANTHRACYCLONE	1
ANTHRACYCLOQUINONES	2
ANTHRACYCYLINE	1
ANTHRACYDINES	1
ANTHRACYICARBAMOYL	1
ANTHRACYL	1646
ANTHRACYLA	1
ANTHRACYLALKYL	1
ANTHRACYLAMINE	3
ANTHRACYLBUTYLBORATE	1
ANTHRACYLCARBAMATE	1
ANTHRACYLCARBAMOYL	1
ANTHRACYLCINE	4
ANTHRACYLCINES	4
ANTHRACYLCINONE	2
ANTHRACYLCLINE	1
ANTHRACYLCLINES	1
ANTHRACYLDIMETHYL	1
ANTHRACYLELINE	1
ANTHRACYLENE	93
ANTHRACYLHYDRAZONE	1
ANTHRACYLIN	7
ANTHRACYLINE	92
ANTHRACYLINES	35
ANTHRACYLINE-BASED	4
ANTHRACYLINE-CONTAINING	1
ANTHRACYLINE-FREE	1
ANTHRACYLINE-INDUCED	1
ANTHRACYLINE-INSENSITIVE	1
ANTHRACYLINONE	7
ANTHRACYLINONES	2
ANTHRACYLLIN	1
ANTHRACYLLIN-ANTIBIOTICS	1
ANTHRACYLLITHIUM	2
ANTHRACYLMETHYL	5
ANTHRACYLMETHYLBORATE	1
ANTHRACYLOXY	1
ANTHRACYLPHOSPHINE	1

ANTHRACYLPHOSPHONOTHIOIC	2
ANTHRACYLPHOSPHONOUS	2
ANTHRACYLS	2
ANTHRACYLSULFONYL	16
ANTHRACYLSULFONYLETHOXYCARBONYL	1
ANTHRACYL-ALKYL	1
ANTHRACYL-AMINES	2
ANTHRACYL-AND	1
ANTHRACYL-PHENANTHRYL	1
ANTHRACYL-SULFONYL	1
ANTHRACYL-2]TETRALIN	1
ANTHRACYL]	1
ANTHRACYL]TETRALIN	1
ANTHRACYNANINE	1
ANTHRACYOLINEDIONE	1
ANTHRACZS	1
ANTHRAC-ENE	4
ANTHRAC-ENONE	1
ANTHRAC-EN-9-YLMETHYL]-METHYL-CARBAMIC	1
ANTHRAC-9-YL	3
(1 AND (ANTHRAC\$.CLM.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Apr 4, 2002

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PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

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<u>Sellman</u> , Bret R.	Rochester	NY	US

US-CL-CURRENT: 424/246.1; 424/236.1, 435/221

CLAIMS:

1. A B moiety of a pore-forming binary A-B toxin, wherein said B moiety comprises a mutation that inhibits its pore-forming ability.
2. The B moiety of claim 1, wherein said B moiety is anthrax protective antigen.
3. The B moiety of claim 1, wherein said B moiety lacks pore-forming ability.
4. The B moiety of claim 1, having an amino acid sequence that is at least 80% identical to SEQ ID No.: 21 and that has an alteration selected from the group consisting of: a) K397A; b) K397D; c) K397C; d) K397Q; e) D425A; f) D425N; g) D425E; h) D425K; i) F427A; j) K397+D425K double mutation; k) K395D+K397D+D425K+D426K quadruple mutation; l) K397D+D425K+F427A triple mutation; m) F427A+.DELTA.D2L2 double mutation; n) K397D+F427A+.DELTA.D2L2 triple mutation; o) K397D+D425K+F427A+.DELTA.D- 2L2 quadruple mutation; p) F427D; q) F427K; and (r) .DELTA.D2L2.
5. The B moiety of claim 1, wherein said mutation is not the deletion of amino acids 302-325 of anthrax protective antigen (SEQ ID NO. 12).
6. A vaccine composition comprising a B moiety of a pore-forming binary A-B toxin or a fragment thereof in a pharmaceutically acceptable carrier, wherein said B moiety comprises a mutation that inhibits its pore-forming ability.
7. The vaccine composition of claim 6, wherein said B moiety is anthrax protective antigen.
8. The vaccine composition of claim 6, wherein said B moiety is inactivated by chemical or physical means.

9. A method of preventing bacterial infection in a mammal, said method comprising administering to said mammal a vaccine comprising a B moiety of a pore-forming binary A-B toxin or a fragment thereof in a pharmaceutically acceptable carrier, wherein said B moiety comprises a mutation that inhibits its pore-forming ability.
10. A method of treating bacterial infection in a mammal, said method comprising administering to said mammal a vaccine comprising a B moiety of a pore-forming binary A-B toxin or a fragment thereof in a pharmaceutically acceptable carrier, wherein said B moiety comprises a mutation that inhibits its pore-forming ability.
11. The method of claim 9 or 10, wherein said vaccine is administered with an adjuvant.
12. A mutant B moiety of a pore-forming binary A-B toxin, wherein said mutant B moiety comprises a mutation that inhibits its pore-forming ability, and wherein said mutant B moiety inhibits the pore-forming ability of a naturally-occurring B moiety of said toxin.
13. The mutant B moiety of claim 12, wherein said mutant B moiety is anthrax protective antigen.
14. The mutant B moiety of claim 13, having the ability to bind lethal factor or edema factor.
15. The mutant B moiety of claim 12, having the ability to compete with said naturally-occurring B moiety for binding to a receptor on the surface of a mammalian cell.
16. The mutant B moiety of claim 12, having the ability to bind said naturally-occurring B moiety.
17. The mutant B moiety of claim 12, having the ability to oligomerize with said naturally-occurring B moiety to form a complex that has reduced ability to form a pore.
18. The mutant B moiety of claim 17, wherein said complex lacks the ability to form a pore.
19. The mutant B moiety of claim 12, having an amino acid sequence that is at least 80% identical to SEQ ID No.: 21 and that has an alteration selected from the group consisting of: a) K397D+D425K double mutation; b) .DELTA.D2L2; c) K395D+K:397D+D425K+D426K quadruple mutation; d) D425K; e) F427A; f) K397D+D425K+F427A triple mutation; g) F427A+.DELTA.D2L2 double mutation; h) K397D+F427A+.DELTA.D2L2 triple mutation; i) K397D+D425K+F427A+.DELTA.D2L2 quadruple mutation; h) F427D; and i) F427K.
20. The mutant B moiety of claim 12, comprising a deletion of at least 5 amino acids of the D2L2 loop.
21. A method of preventing bacterial infection in a mammal, said method comprising administering to said mammal a mutant B moiety of a pore-forming binary A-B toxin or a fragment thereof, wherein said mutant B moiety comprises a mutation that inhibits its pore-forming ability, and wherein said mutant B moiety inhibits the pore-forming ability of a naturally-occurring B moiety of said toxin.
22. A method of treating bacterial infection in a mammal, said method comprising administering to said mammal a mutant B moiety of a pore-forming binary A-B toxin

or a fragment thereof, wherein said mutant B moiety comprises a mutation that inhibits its pore-forming ability, and wherein said mutant B moiety inhibits the pore-forming ability of a naturally-occurring B moiety of said toxin.

23. The method of claim 9, 10, 21, or 22, wherein said B moiety or said mutant B moiety is anthrax protective antigen and said bacterial infection is an anthrax infection.

24. The method of claim 9, 10, 21, or 22, further comprising administering to said mammal an antibody that binds said naturally-occurring B moiety.

25. The method of claim 9, 10, 21, or 22, wherein said mammal is a human.

26. The method of claim 25, wherein said mammal has been exposed to B. anthracis spores.

27. An purified antibody that specifically binds a naturally-occurring B moiety of a pore-forming binary A-B toxin with greater affinity than a mutant B moiety of said toxin, wherein said mutant B moiety comprises a mutation that inhibits its pore-forming ability.

28. The antibody of claim 27, wherein said mutant B moiety inhibits the pore-forming ability of a naturally-occurring B moiety of said toxin.

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